

## Product datasheet for MR205502

### St8sia4 (NM\_009183) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	St8sia4 (NM_009183) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St8sia4
Synonyms:	PST; PST-1; SIAT8-D; Siat8d; ST8SialV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205502 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCGCTCAATTAGAAAACGGTGGACCCTGCACTATAAGTCTACTCCTGATCTTTTATAAGACAAAAG  
AAATAGCCAGAAGTGGAGACCAAGAGACGCAACTCATCGGAGATGGTGAAGTGTGTTTGAGCAGATC  
ACTTGTCAACAGCTCTGATAAAATCATCCGGAAGGCTGGCTCCACCATCTTCCAACATTCTGTACAAGC  
TGGAAAATCAATTCTTCTTAGTCCTGGAGATAAGGAAGAACATTCTTCGTTTCTTAGATCGGAAACGTG  
ACGTATCTGTGGTCAAGAGCAGTTTTAAGCCTGGTGTGTCATACACTATGTGCTGGACAGACGCCGGAC  
ACTAAATATTTCTCAAACTGTCATAGCCTCCTGCCTGAAGTTTACCAATGAAAAACCGAGGTTTAAG  
ACCTGTGCAGTTGTTGAAATCCGGCATTCTGCTAGACAGTGGATGTGGAAAGGAGATTGACAGCCACA  
ACTTTGTAATAAGGTGCAATCTAGCTCCTGTGGTGGAGTTCGCTGCTGATGTGGGGACTAAATCAGATTT  
TATTACCATGAATCCATCAGTTGTGCAAAGAGCATTGGAGGCTTTCGGAATGAGAGTGACAGAGAAAA  
TTTGTGCATAGACTCTCCATGCTGAATGACAGCGTCCTTTGGATTCTGCCTTCATGGTCAAAGGAGGAG  
AGAAGCACGTGGAGTGGTTAATGCATTAATCCTTAAGAACAACTGCAAGTGGCAACTGCCTATCCATC  
ACTTAGACTTATTCATGCAGTCAGAGGATACTGGCTGACTAACAAAGTTCTATCAAAGACCTAGCACA  
GGTCTCCTCATGTATACACTTCCACCAGATTCTGTGATGAAATTCACCTTTATGGATTCTGGCCATTT  
CCAAGGATCTGAATGAAAAGCTGTCAAATATCATTACTATGATGACTTAAAATATAGATACTTTTCCAA  
CGCCAGTCTCACAGGATGCCATTAGAATTTAAAACATTGAGTGTGCTACACAATAGAGGAGCTCTAAAA  
CTGACCACAGAAAGTGCATGAAGCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205502 protein sequence  
Red=Cloning site Green=Tags(s)

MRSIRKRWICTISLLLIFYKTKEIARTEEHQETQLIGDGELCLSRSLVNSSDKIIRKAGSTIFQHSVQG  
 WKINSSLVLEIRKNILRFLDAERDVSVVKSSFPGDVIHYVLDRRRTLNI SHNLHSLLEPVSPMKNRRFK  
 TCAVVGNSGILLDSGCGKEIDSHNFVIRCNLAPVVEFAADVGTSDFITMNPSSVQRAFGGFRNESDREK  
 FVHRLSMLNDSVLWIPAFMVKGGKEKHVEWYNALILKNKLQVRTAYPSLRLIHAVRGYWLTKNVPIKRPST  
 GLLMYTLATRFCDIEIHL YGFWPFKDLNGKAVKYHYDDLYRYFNSASPHRMPLEFKTLSVLHNRGALK  
 LTTGKCMKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009183

**ORF Size:** 1080 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_009183.1](#), [NM\\_009183.2](#), [NP\\_033209.1](#)

**RefSeq Size:** 5437 bp

**RefSeq ORF:** 1080 bp

**Locus ID:** 20452

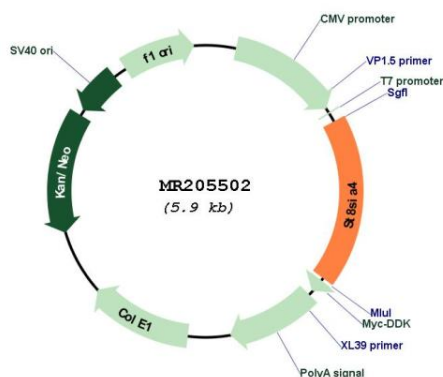
**UniProt ID:** [Q64692](#)

**Cytogenetics:** 1 D

**MW:** 41.2 kDa

**Gene Summary:** Catalyzes the polycondensation of alpha-2,8-linked sialic acid required for the synthesis of polysialic acid (PSA), which is present on the embryonic neural cell adhesion molecule (N-CAM), necessary for plasticity of neural cells.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR205502